




















1 2 3 4 5 6 7 8 9 10,11 12,13

Phase 1 & 5	← G —	← R —	R	← G —	← R —	R	R	R	← G —	DW	DW	
1 & 5 Change To Phase 1 & 6 or Phase 2 & 5	← G —	← G —	G	← G —	← G —	G	R	R	← G —	DW	DW	
Phase 1 & 6	← G —	← G —	G	← G —	← G —	G	R	R	← G —	DW	DW	
1 Change	← G —	← G —	G	← G —	← G —	G	R	R	← G —	DW	DW	
Phase 2 & 5	R	R	R	← G —	← G —	G	R	R	← G —	DW	DW	
5 Change	R	R	R	← G —	← G —	G	R	R	← G —	DW	DW	
Phase 2 & 6	G	G	G	G	G	G	R	R	R	WK	DW	
Ped Clearance	G	G	G	G	G	G	R	R	R	FL/DW	DW	
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW	
Phase 4	R	R	R	R	R	R	G	G	G	DW	DW	
4 Change	R	R	R	R	R	R	Y	Y	Y	DW	DW	
Phase Alt. 4	R	R	R	R	R	R	G	G	G	DW	WK	
Ped Clearance	R	R	R	R	R	R	G	G	G	DW	FL/DW	
Alt. 4 Change	R	R	R	R	R	R	Y	Y	Y	DW	DW	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	

Wiring Diagram

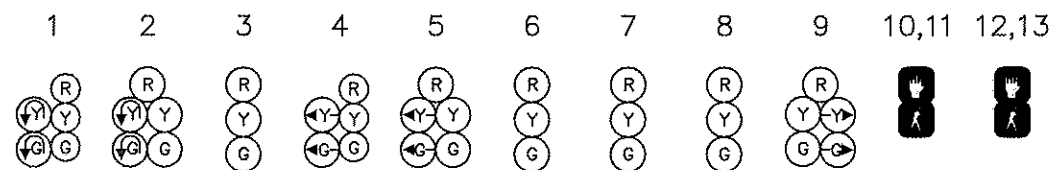
Ultimate Traffic Control Signal Sheet 27 of 28			
MDOT – STATE HIGHWAY ADMINISTRATION <i>Office of Traffic & Safety</i> TRAFFIC ENGINEERING DESIGN DIVISION			
AWWN BY: <u>J. Dirndorfer</u> S. BY: <u>J. Dirndorfer</u> K. BY: <u>[Signature]</u> <u>11/2/95</u>	MD 355 at Travis Avenue		
COUNTY: MONTGOMERY			
DATE: <u>November 6, 1995</u> SCALE: <u>N/A</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;"> F.A.P. NO. <u>AC-NH-G-5113(10) C</u> S.H.A. NO. <u>M 611-501-371</u> </td> <td style="width: 50%; padding: 5px;"> TS/STD. NO. <u>3555-GI</u> </td> </tr> </table>	F.A.P. NO. <u>AC-NH-G-5113(10) C</u> S.H.A. NO. <u>M 611-501-371</u>	TS/STD. NO. <u>3555-GI</u>
F.A.P. NO. <u>AC-NH-G-5113(10) C</u> S.H.A. NO. <u>M 611-501-371</u>	TS/STD. NO. <u>3555-GI</u>		














The existing cabinet and controller are to be utilized. The phasing is to be modified to a NEMA five phase, semi-traffic-actuated mode. There will be an exclusive/permissive U-turn for the northbound movement of MD 355 included. The through movements for MD 355 will operate concurrently and have a concurrent pedestrian phase across the east leg of the intersection. The Travis Avenue movements will operate alone and have an actuated pedestrian phase across the north leg of the intersection.

- A. Use existing handhole.
- B. Install 1 in. liquid tight, non-metallic conduit for loop detector sleeve.
- C. Install 6 ft. x 30 ft. quadrupole type vehicle loop detector (2-4-2 turns).
- D. Install 6 ft. x 6 ft. vehicle loop detector (3 turns).
- E. Use existing conduit.
- F. Use existing strain pole. Install pedestrian signal head and pedestrian sign.
- G. Use existing strain pole. Install pedestrian signal heads, pedestrian pushbutton, and pedestrian sign.
- H. Use existing span wire.
- J. Use existing span wire, relocate existing signal heads, and sign. Install signs as shown.
- K. Install 12 in. preformed white pavement marking for pedestrian crossing.
- L. Install 24 in. preformed white pavement marking for stop line.
- M. Existing cabinet/controller are to be utilized.
- N. Use existing handhole and splice new loopwire to the existing 2-conductor aluminum shielded cable.
- O. Use existing loop detector sleeve.
- P. Use existing strain pole. Install pedestrian signal head, pedestrian pushbutton, and pedestrian sign.
- Q. Use existing span wire, relocate existing signal heads and install new signs as shown.

Equipment to be supplied by the SHA.		
Quantity	Unit	Description
1	EA	12 in., two-way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount.
2	EA	12 in., one-way, two section (Symbolic WK, DW) adjustable pedestrian signal head – pole mount.
2	EA	Pedestrian pushbutton assembly.
1	EA	8 in./12 in., one-way, five section (8 in. R,Y,G / 12 in. YA,GA) adjustable traffic signal head – span wire mount.
1	EA	12 in., one-way, five section (R,Y,YA,G,GA) adjustable traffic signal head – span wire mount.
69	SF	Sheet aluminum signing. [To consist of four 9 in. x 12 in. R10–3C signs for pole mounting, and one 30 in. x 36 in. R3–5(U), one 36 in. x 42 in. R10–12(U), and six 16 in. x Var. D3–2 signs for span wire mounting.]

Equipment to be furnished and/or installed by the Contractor.		
Quantity	Unit	Description
575	LF	12 in. preformed white pavement marking for pedestrian crossing
125	LF	24 in. preformed white pavement marking for stop line.
600	LF	Sawcut for signal loop detector.
1600	LF	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing.
50	LF	1 in. liquid tight, flexible, non-metallic conduit for loop detector sleeve.
1600	LF	2-conductor (aluminum shielded) electrical cable (No. 14 A.W.G.).
325	LF	2-conductor electrical cable (No. 14 A.W.G.).
475	LF	3-conductor electrical cable (No. 14 A.W.G.).
75	LF	5-conductor electrical cable (No. 14 A.W.G.).
300	LF	7-conductor electrical cable (No. 14 A.W.G.).
4	EA	Relocate existing traffic signal head - span wire mount.
10.5	SF	Relocate existing sheet aluminum signing - overhead mount.
66	SF	Install sheet aluminum signing - overhead mount.
3	SF	Install sheet aluminum signing - pole mount.
2	EA	Install traffic signal head - span wire mount.
3	EA	Install pedestrian signal head - pole mount.
2	EA	Install pedestrian pushbutton.
1	EA	Loop detector splice.
LS	LS	Remove existing traffic signal equipment.



Phase 1 & 5	R	G	R	R	R	R	R	R	R	DW	DW	
1 & 5 Change To Phase 1 & 6 or Phase 2 & 5												
Phase 1 & 6	G	G	G	R	R	R	R	R	R	DW	DW	
1 Change	G	G	G	R	R	R	R	R	R	DW	DW	
Phase 2 & 5	R	R	R	G	G	G	R	R	R	DW	DW	
5 Change	R	R	R	G	G	G	R	R	R	DW	DW	
Phase 2 & 6	G	G	G	G	G	G	R	R	R	WK	DW	
Ped Clearance	G	G	G	G	G	G	R	R	R	FL/DW	DW	
2 & 6 Change	Y	Y	Y	Y	Y	Y	R	R	R	DW	DW	
Phase 4	R	R	R	R	R	R	G	G	G	DW	DW	
4 Change	R	R	R	R	R	R	Y	Y	Y	DW	DW	
Phase Alt. 4	R	R	R	R	R	R	G	G	G	DW	WK	
Ped Clearance	R	R	R	R	R	R	G	G	G	DW	FL/DW	
Alt. 4 Change	R	R	R	R	R	R	Y	Y	Y	DW	DW	
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	DARK	DARK	